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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/924,943	08/09/2001	Tadao Kanuma	040679-1324	1999

22428 7590 02/17/2004

FOLEY AND LARDNER  
SUITE 500  
3000 K STREET NW  
WASHINGTON, DC 20007

EXAMINER

SINGH, ARTI R

ART UNIT	PAPER NUMBER
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1771

DATE MAILED: 02/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/924,943

Applicant(s)

KANUMA, TADAO 

Examiner

Ms. Arti Singh

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☐ Claim(s) \_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_.

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## DETAILED ACTION

### *Response to Amendment*

1. The Examiner has carefully considered Applicant's amendments and accompanying remarks filed on 11/08/2003. Applicant's amendments to claims and specification have been entered. All previously made rejections/objections are now withdrawn, and as Applicant has amended the claims this action is made final necessitated by amendment.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-23 are rejected under 35 USC 102 (e) as anticipated by or in the alternative, under 35 USC 103 (a) as obvious over Kami et al (USPN 6283507) in view of Li et al. (USPN 6177366). Kami et al. disclose a light weight airbag wherein the airbag constitutes a base fabric composed of a woven fabric which has been made using a raw yarn of less than 150 denier (column 4, lines 25-34) and a cover factor of 2100 or more (column 4, lines 35-51) a basis weight of 140 g/m<sup>2</sup> or less (column 4, line 52-57) to which a heat resistant elastomer is applied thereon. At least a part of the sewn areas relating to the main body of the airbag, particularly where a reinforcing fabric is sewn around the inflator fitting hole, being sewn with a sewing thread and the stitch number complying with a formula  $2 \leq T/S \leq 8$  (column 3, line 19) which is exactly the same as required by Applicant in claim 14 (abstract, column 2, line 55 to column 3, line 65). Several different coating processes to increase the tightness in the airbag however most coatings or resins are applied in an amount between 20 and 100 g/m<sup>2</sup> (column 5, line 4). In column 7, lines 13-19. The instant patent teaches the use of many different types of synthetic threads used for sewing maybe nylon, polyester, vinylon, aramids, fluorine, carbon and glass. The woven fabric forming the airbag is formed of filaments like polyamide fibers, nylon, polyester, etc. (column 8, lines 41-60). The teachings of Kami et al. disclose the use of silicone system coatings (column 9, line 19), but do not explicitly teach the two step silicone coating as required by Applicant.

The invention of Li et al. relates to novel airbag coating compositions comprising at least two separate and distinct layers. The first layer (base coat), being in contact with the airbag surface comprises a composition of at least one coating material which may comprise up to 30% by parts of the total amount of material in the first layer of a silicone resin which provides excellent adhesion, excellent tensile strength, and overall lower cost than standard silicone airbag coating materials. The second layer, being a coating for the first layer, provides excellent reinforcement and aging characteristics to prevent degradation of the first layer. Such a second layer (topcoat) is preferably a silicone material. This two-layer system permits excellent strength and aging properties to prevent seam combing at relatively low cost due to the inexpensive basecoat materials and the relatively low amount required for the topcoat. An airbag fabric coated with this inventive two-layer system is also contemplated within this invention.

A person having ordinary skill in the art at the time the invention was made would have found it obvious to have employed the two part silicone coating system as the coating in the airbag of Kami et al. One would have been motivated to do so as to provide an air bag with excellent strength and aging properties.

Given that the combination of Kami et al. and Li et al. meet each and every chemical and structural requirement set forth in the claims, then it must meet the property limitations of hardness and fractural elongation recited that depend from said requirements. In other words, it is reasonable to presume that the invention of Kami et al. and Li et al. would inherently anticipate the physical properties of hardness and fractural elongation are deemed to be inherent to the invention of Kami et al and Li et al. The burden is upon Applicant to prove otherwise. See *In re Fitzgerald* 205 USP 495.

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*Response to Arguments*

5. Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection.

*Conclusion*

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ms. Arti Singh whose telephone number is 571-272-1483. The examiner can normally be reached on M-F 9-7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Ars  
1/24/04

Ms. Arti Singh  
Primary Examiner  
Art Unit 1771